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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,125	10/26/2001	Ilan Yona	PA2017US	2428

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WONG, CABELLO, LUTSCH, RUTHERFORD & BRUCCULERI,
P.C.
20333 SH 249
SUITE 600
HOUSTON, TX 77070

EXAMINER

BENGZON, GREG C

ART UNIT PAPER NUMBER

2144

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/045,125

Applicant(s)

YONA ET AL.

Examiner

Greg Bengzon

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 October 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 26 October 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>20020211</u> <u>20030804</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This application has been examined. Claims 1-25 are pending.

Priority

This application claims benefits of priority from Provisional Application 60243886 filed October 27, 2000.

The effective date of the claims described in this application is October 27, 2000.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 02/11/2002 and 08/04/2003 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhu (US Patent 6357028).

Zhu disclosed Claim 1 - An apparatus for facilitating multimedia communication between a plurality of endpoints over a packet based network, each respective endpoint sending a compressed video output signal and receiving a compressed video input signal, having at least one network interface to a packet-based network, the network interface comprising: a missing packets repair logical unit, (Zhu – Column 7 Lines 50-65) said missing packets repair logical unit handling missing packets (Zhu - Column 9 Lines 50-55) and thereby maintaining continuity of a video stream and reducing traffic over said network. (Zhu – Column 4 Lines 50-65)

Zhu disclosed Claim 2 - network interface of claim 1, wherein the missing packets repair logical unit further comprises: a first analyzer that analyzes if a packet is missing;(Zhu – Column 7 Lines 30-35) a second analyzer that analyzes which Group Of Blocks (GOBs) are in the missing packet; (Column 9 Lines 35-45) and a repair unit that replaces the missing packets. (Column 7 Lines 50-65, Column 9 Lines 60-65)

Zhu disclosed Claim 3 - apparatus of claim 1 wherein the network is a local area network. (Column 4 Lines 35-40)

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Zhu disclosed Claim 4 - apparatus of claim 1 wherein the network is a wide area network. (Column 4 Lines 35-40)

Zhu disclosed Claim 5 – the apparatus of claim 1 wherein the video stream is repaired during a video stream receiving. (Zhu – Column 4 Lines 50-65)

Zhu disclosed Claim 6 - A system comprising: a network interface unit having a video stream repair unit that receives a video stream from a real time protocol unit, (Zhu – Column 7 Lines 50-65) having a detector unit that detects missing packets, (Column 9 Lines 35-45) an analyzer unit that analyzes which video parts are missing, (Column 9 Lines 35-45) a replacement unit that receives an indication from the detector unit that packets are missing, and information from the analyzer unit, the information including which video parts are missing, and in response to receiving the indication and the information replaces a missing packets (Column 7 Lines 50-65, Column 9 Lines 60-65) in a video stream during transmission of the video stream over a network as part of a receive process.

Zhu disclosed Claim 7 - A method for repairing missing packets in video communication over a packet-based network, the method comprising: analyzing if at least one packet is missing; (Column 9 Lines 35-45) determining which Group of Blocks (GOBs) are missing; (Column 7 Lines 50-65) preparing new packets which will replace

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the GOBs; and sending the new packets to a destination. (Column 9 Lines 60-65)

Zhu disclosed Claim 8 – the method of claim 7 wherein the destination is a point remote from where the analyzing occurs. (Column 9 Lines 60-65)

Zhu disclosed Claim 9 - A method comprising: transmitting a video session over a network; and replacing a missing part from the video session while the video session is being transmitted. (Column 9 Lines 60-65)

Zhu disclosed Claim 10 – the method of claim 9 wherein the missing part is replaced in an intermediate node during a receiving process that receives the video session. (Column 9 Lines 60-65)

Zhu disclosed Claim 11 – the method of claim 10 further comprising detecting the missing part during the receiving process. (Column 9 Lines 60-65)

Zhu disclosed Claim 12 - the method of claim 11 wherein detecting the missing part includes detecting if a part of the video session received is out of sequence. (Column 9 Lines 35-45)

Zhu disclosed Claim 13 - the method of claim 9 wherein replacing the missing part is dependent on the frame type. (Column 9 Lines 50-55)

Zhu disclosed Claim 14 - the method of claim 12 wherein: each part of a video session has an ID number; (Column 9 Lines 35-45) and analyzing which part is missing comprises finding the ID number of the last received video session part, (Column 9 Lines 35-45) and finding the ID number of a first video session part of a stream currently being analyzed. (Column 9 Lines 35-55)

Zhu disclosed Claim 15 - the method of claim 9 wherein the missing part is at least one GOB. (Column 9 Lines 35-55)

Claims 16-22 are rejected on the same basis as Claims 1-15, as disclosed by Zhu.

Zhu disclosed Claim 23 - the network interface of claim 1, wherein the missing packets repair logical unit further comprises: a first analyzer that analyzes if a packet is missing; a second analyzer that analyzes which Slices are in the missing packet; (Column 9 Lines 35-55) and a repair unit that replaces the missing packets.

Zhu disclosed Claim 24. A method for repairing missing packets in video communication over a packet-based network, the method comprising: analyzing if at

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least one packet is missing; determining which Slices are missing; (Column 9 Lines 35-55) preparing new packets which will replace the Slices; and sending the new packets to a destination.

Zhu disclosed Claim 25 - the method of claim 9 wherein the missing part is at least one Slice. (Column 9 Lines 35-55)

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to the enclosed PTO-892 form.

US 6683909 B1 Falco; Michael A. – disclosed system wherein incoming packets are monitored for partial GOBs. A partial GOB is where the GOB was previously parsed into portions by a device for compliance. Once a partial GOB is detected, pertinent information pertaining to the macroblock fragmentation is then retrieved and stored for future use. The pertinent partial GOBs are then combined to form a complete GOB.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Bengzon whose telephone number is (571) 272-3944. The examiner can normally be reached on Mon. thru Fri. 8 AM - 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (571)272-3923. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



gcb



DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100